









actg. asst, us lo. S. in charge fohr Yukon.

- Monday april 28 at two p. m. weigh anoher & beat out of Sun Franciso Bay passing the heads at 4 P.M. and sail for Unalaska. A. J. Wind Wby S. Ther. 62. Cloudy-Inesvay april 29 Umo Joesh M. W. Sky half clear, Bar. 30.440, Ther, 60, Commence current observations Wednesday apr. 30 Wind light nW, Ther, 62, Walter 58, Bar, 30,460, Healf clear Commence hydrometric abservations Water at 4 P. M. reads -, 24 Thursday May ! Commence sea time. 4 P. Il. Bar.

Commence Lea time. 4 P. III. Bar. 30,44, air. 66°, Water 62°, 86, gr. 24 8 P. II., Bar. 30.42°, air 62°, water 60 12 P. II., Bar. 30.42, air 60°, Water 60 4 A. II. Bar 30.35, air 59, Water 60°, 8 A. M. Bar. 30.39, air 59, water 60°, 12 m. Bar. 30.43, air 70, water 59°,

The same of the sa

				9				
Makes the control of	monde	y Ma	u 5-1849					
Fine.	Bar.	Pair.	45,1879 Wata,	Sp. gre-				
48.11	130,59	64.	54 -	0,24 h				
8	30,60	60	59	.,				
12		56		nE				
* * *	30,59			FUE				
***************************************			5-8					
12	30.59	67	58					
Wind	Lucson	ledy	Clondy					
	Luesda	y May	6-					
Time:	Bar	air.	Water	Sp.gr				
4P.M	30,49	62		-0,25 S.E.				
8		59	57	6,				
	30.48	5%		•,				
4 AM				< p				
8	30.32							
12			574					
Wind	gresh.	SE, C	londy					
Wednesday May 4								
time	Bar.		Water.	Sp. gr.				
4 P.M.	30.13			0,25-5.8				
8			53					
12		63						
	29.96		51	/,				
8	30,01	52	53	Sev				
12	29.99	56	5-1					
While	SEHO	SWm	oderate	Cloudy				

Wednesday May, 14.73_ Time Bav. air. Water, sp.gr. Wruds 4P.Ul. 29.60. 46° 40°, -0.27, W.S.W. 8 " 29.62. 40. 39. 40, 8 29.33. 39. 40, " 12. M. 29.22, 39. 4.0.11.29.08.41. 41. -0.27.8W 8. P. M 29.04. 40. 40. Calm Winds light with rain, Many birds seen (This day contains 36 hours to recommence civil tune and conform with the original note books for the season) Thursday May 15 June Bar. au. Water. Sp. gr. Wruds 4 A.M 29.17, 38°, 39°, NW 8 29.35, 42, 40, W 12... 29.46.40, 39. W 4 P. M 29,56. 40, 39, -0.265 8 29.60.35, 39 12 29.62. 34. 39 ... Cloudy, very light wind or nearly calm Finday May 16 Fine. Bar. air. Water. 8p.gr. Winds 4 A.M. 29.62, 33°. 39°, WSW 8... 29.70. 33. 39.

June. Bar. air. Water, sp.gr. Whis. 12. M 29.80. 38°, 38°. WSW. 4 P.M 29.75 42, 39, -0.265 8. 29.78 38, 38, 12. 29.79 36, 39. Word in A. M. moderate. Cloudy with mowsqualls in Pill. Sight Sannakh Island 15 miles west in the afternoon. There is a good deal more low land about this island Than is apparent on the charls. In lat. 54.23 n and Lon. 162.08, W sound in 75 fms hard bottom. Peak of Sannakh and send of Land WSW by compass

Saturday may 17 Fine, Bar. au. Water. Sp. gr. Wind, WSW 4 A.M. 29,76 35° 37° 8 A.M. 29, 85 39 38 40 12 29,80 42 SSW 4 P. M. 29.75 46 39 -0.26 8., 29.78 42 39 Calm 12....29.80 39 Take a series of observations to determine the position of a codbant, on which we catch a large number of cod and halibut about 9 A. M. These

will be bound in the astronomical

note book. at the commencement of these circumeridian observation, take the following bearings by compass. E end of Sannakh group NW & W $W \dots E island W \frac{3}{4}N$ E Peak " W 1 n Peak hears W (alt. by sextant 0:41:30"?) Wend of Peak island Wis Outying rocks wys 20 minules after, at end of observations having gone one mile on a Wis Mag. course, take the following bearings. Why SIS Easternmost small vocks " end next-island W Su Beall " Wih Peak (alt. 0:48.20?) Whynin wnw E end peak island nuhyh W. .. next. nnw; w 2 Breakers of last Myw3W Southern most rocks WSW Junday May 18.73 ____ Frine. Bar. an. Water Sp. gr. Wris 39°
38°
40
40 -0.255 WSW
39°
8°
100 29.82 36° 29.89 42 29.95 60 12 dl. 30.00 49 4 P.M 80.01 41 8 .. 4 nnw 30.05 38 12

nearly clear, very light aus or calin. Lee Shishalden & Isanotsky volcanoes.
Monday May 19, 73 Inne. Bar. au. Water Sp.gr. Wonds 4AM 30.06 35° 36° NWhyh 8. 30.20 33 36 hW 12 .. " 30.20 4/ 39 " " 4P.M. 30.27 38 39 -0.255 NNW 8 .. . 30.30 33 12 .. . 30.32 31 37 WNW Fresh breeze, cloudy with some fog Let through the Unimak Pass heat ing against a 3knot current, Vass the nE end of akhun and look into the bay which muth supposes to contain a harbor, but see noth ug remarkable. Fresday May 20_ True. Bar. Au Water Spar. Wind. 4 A.M. 30.38 30° 37° 8 ... 30.38 30 36 nn E 12 ... 30.40 44 36 -0.255 " ...

Come unto Captains Bay about 8 A. M. and auchor in Heulink Harbor about 10.30 A.M. having made the voyage in 21 days and 12 hours, the quickest time brom In Frances co

Go ashere at f. A. M. with Mr. Baker and attempt observations for time with vert. circle no. 75: Come aboard at 10 A. M. at three P. M. growt again and continue observations which are soon interraptio by clouds. Since Bar. an. Sear. water Deepdo Ivind 6 A. M. 30.34 41° 39° 41° W 12 M. 30.38 67 - W 6 P. M. 30.40 54 38 - SSW

- Monday May 26 Cloudy nearly calin. Sailing master Herendeen goes to Ralekhba Bay in a bidarka with two natives to search for a stick to replace our jebtvom. Ogo ashere andwork at adjustments of instruments and lesting new Clemeter. P. M. go bo Makhba Spel and take a series of observaluers for determining the maynetic against of the baseline of the sa of this harbor with observatures for astronomical agrinwith at the same time, which are interrupted by clouds tund Back by 8 0'. M. Capt Herenteen

octurns without having obtained ce spar. Frue. Bar au Sur Water Deep do Wind 6 Aull, 30.48 40° 40° SW 2 dl. 30.47.54 _ _ SW 6 P.M. 30.34 46 40 - WSW Fresday may 27 Monny cloudy with occasional bits of clear skey. Would he Joesh in puffs. Foto Makhta Sport in A. il to obtain another series of observations for magwell a agumenth of base line. Return at noon. P. M. Cloudy would strong with occasional Enou squalls. Busy in elecical work Fine. Bar, an. Sur water deep de wind 6. A. M. 30.24 40 40 42 NW 12. ll 30.20 55 - n 6 P. Il 30.15 42 40 - h Wednesday May 28 June Bar. an. Sur. water deep do. Wind 6 A.M. 30.15 36° 40° 42 12 M. 30.10 37 -6 A.U. 6 P.M. 30.09 36 40 nw Wrind fresh with a good deal of sleet and snow. Min therm. 32.

Thursday May 29.1873____ Fine. Bar. surf. water deep do. Wird. Air 6 A. M. 29.95 39° 4/ n 35 12 Ul 29.97 - nw 45 6 P. M. 30.00 - nn 43 storming hard with rain & squalls P. M. rain ceases. To ashore and establish a station for astronomical purposes, consisting of three blocks of wood, buries in a mass of stones and coming to the surface so as to afford a steady support for The tripods of our instruments, with a flat stone in the middle for placing the mercurial horson on. The position of the station is nearly on the spot where our astronomical observations of 1871-2 watarken. albatross & hears S7748 A 0,00 B 1800'0' Church cupola bears \$.36 E A 41,21,40. B. 221, 22. 00 Keysbone & bears S77 W A 154.13.20 B. 334, 13.40

Evening being nearly clear we go

out with the verbical encle

and attempt to get time from one of the stars in the constellation aquilae, but the lamp gives us so much trouble that we have not great confidence in the readings, Return to vessel at 2,30 A. M. Min ther, 33.5 - Friday, May 30, 1873 Fine, air, Sulf water deep do Wind Bar. 6. A. Il 42° 89° 41° nw 29.96 12. Il 56 - n 29.95 6 P.M. 57 42 - n 29.96 monning clear theme, wind light t afterwards fresh. Min. Ther. 35.0 To out at 6 A. M. with sextant and artificial horizon to obtain a series of equal attitudes for time I'all complete the series which promises good results. Laturday May 31 June, Bar. an Sui water beeped, Wines. 6 A. M. 30.00 42° 41° 41° 12 M 30.02 54 - - ME 6 P.M. 30.08 48 43 - nE Morning cloudy with light MW wind; later wind fresher. all hands busy, fitting new jebboom. O. M. Jake the book to

and start for the site of the old Igognak er Eider village, to end a signal in the bluff to be used in the sm of the Bay, arrive about IP. M. Spendthe P. M in erecting the signal which is on the high bluff behind the point & composed of three scautling staged & anchord as in the case of the Islands. Return to the spit about 9 P. ill. after having taken a series of angles thearingo to determine the position of the signal and a series of telemeter observations to determe its height which is about 522 feet, Camp for the From Eider A Near Cape Cheerful-NE shore of akutan bears N 35 E vem a. o. o'. B 180°, o'. Priest Rock bears n 5/4 E. A. 16°. 10' B. 196. 09. S. Head Constantine Bay 1768 A 41°, 05' B 221, 06'

north Head A n 923 E

A67° 43' B 237,42

Thursday June 4 End of reef W of Makhba Head h 108/2 E A 73°. 22' B 253: 21' France. Bat. Air Surfwaler Deep de Wund 6 A. M. 30.09 39° 44° 45° 12W heelle Rock bears Forth 117 1/4 & 12M. 29.97 - 53 - h. A 82.24 B 262°.24 69.11. 29.91 = 48 46 - 8.5E Keystone & bears n 145-3 & A 110:44 B 290° 43 Cloudy with a little rain write light W Head of Captain's Harbor S 465E in A. M. stronger with a little rain A 119:20 B 299.20 in Pell. all hands busy billing water & repairing tide guage house Juesday dune 3 Time, Bar au, Sur, Water, Deep de Wind Thursday Lune 5 Some. Bar. air. Sur water deep de Wind G. J. M. 30.17 45° 44° 41° 2 12 M. 30,21 49 - 7 25 6 A.M. 29.85 43 45 40 38 6 P. M. 30.22 49 44 - nE 12 M, 29.86 48 To out in the A. M. after breakfast 6 P. M. 29.89 44 46 -Ramy with moderate wind. and take some soundings to de-Friday Dune 6_ termine the character of the an-6 A. M. 30.04 42 44 40 ESE chorage which is in from 22 to 12 m. 30.11 44 -30 four hard sand times, close in 4 P.M 30,14 46 44 to the spit and 30 fms without Karning all day, Wind light. voltom. Jurther out but still well uside the reef. The shore is pretty Saturday June 7 well laid down in the old chark 6 A.M. 30.15 42 43 40 SE as is the reef which protects 12 M. 30.14 45 6 P. M. 30,14 44 43 the anchorage. Day from t clear a little Jog on the east side of Blowing hard and raining all day Junday June 8 6. A.M. 30.16 42 42 40 12 M 30.16 46 6 P.M 80.14 45. 43 the Bay. Start back about noon having a smart breeze after gettry about half way over ESE

	0 1	0		Q
Blowing pretty Monda	fresh.	. Karns	all	day.
Fine, Bai. a	ic Sur.	Water is	cep do	Wind
6 A. M. 30.10 4			*	
12 Ml. 30.04 4				
6 P. M. 29.96 4				
Wind fresh in			1	
- Fuesd	ay Dur	ne 10_		
Fine. Bar. a				
6 A. M. 29.87	44	4/	38	5
12 M. 29.87	62		Andread State of the State of t	2
6 P.Ul. 29.88	71	4.8	e inner son nichten in gefinn in den die eine haben der einer den die eine eine	nE
Cloudy in earl	y A.M.	but so	von d	ears
would moderate	Jako	a seri	is of	angles
from the new				-
albatross & to				
the agimuths h	ave bee	n obser	ved i	vith
the harbor Aw.	P.UL.	connect	- the	astro
nomical & wit		e e		
a series of or	serval	ions or	n the	sun
for agimuth.)	a dishibituar salah fishada 1957 Ch. Asir Jahari Shi Hacab	
Wedne		A		
June. Bal. a		•		Winds
6 A. M. 29.94 4	4 4	12° 3		Calm
	4	A STATE OF THE STA		r. Ut.
4 P. M. 29,84 5	4	. 2	gamen also are common to also be considered to the constraint of t	Calm
A COLOR STATE OF THE STATE OF T	2 4	/3	and the second second and the second	323
12 P.M. 29.69	16 4	1		1.

Fow out of Hinkink Hearbor early in the A. Il. and anchor off the town. Day very Joggy, clear at intervals with very light airs. about 6 P. Il a moderate breeze springs up and we sail for Chichagoff Harbor attu. Cloudy Thursday Dune 12 Winds June Bar. au. Water 4 A.M 29,59 43 40 8 ... 29.50 41 41 12 ll 29.52 46 41 4 P. M 29, 48 43 41 8 ... 29,53 42 41 12 29.65 41 40 Weather thick, wind moderate, some ram Friday June 13 Time, Bal. air. Water Words ne 4 A.M. 29.71 40. 39 . 8 29.85 42 39 12 m 29.95 46 40 4 P. M 29.96 HS 39 8...30.00 #1 40 Weather thick & Joggy wind moderate

about 10 a.M. see Gouldyr Island bearing S. Saturday June 14, 1843. magnetice. At noon having obtained somet June Bar all Mater Sp. Fr Minds observations for position placing us in 4 an. 29.94 39° 39 - 6, N.C. Lat. 52° 56' 41.2" and Long. 1175° 38' 20" 6. 8 . 29.95 40 40 11 Sound as follows: 12 M. 29.90 43 39 41 P.M. 29.89 42 39 Line run out Offine Let go
12 h 40 m, oosee.
50 fms
12 40 18
50 , 12 40 38 1 , 29.86 HU 39 n. 12 11 29.85 39 40 11 Meather thick & cloudy, wind light. 34 100 Ovening a little fresher. 100 11 I Sunday, June 15th 21 Vine Jar. Air Mater 50 " Minds. 4 a.m. 29.89 38° 40° M. 1 29.89 41 39° M.M. M. 50 100, 12 44 100 11 12 50 12. 9N. 29.96 42 40 " 100 12 52 4 G.M. 29.97 42 40 //-200, 12 56 1 30.00 42 40 118 "end of line 12 59 12 " 30.01 42 40 Total 1.018 " without bottom; the deepest Mind fresh. Weather cloudy Monday, Jane 16" sonnding ever taken in Bering Dea, Conditions all farvrable; the sea quet; the Vine Bar hir Water Minds Sound nearly phink, and the sand cup 4 am 30,06 41, 40° R. R. E. Wh which the 100 th lead was armed 30,20 come up clean and unerabehed, 12 MV. 30, 25 42 4 8. M. 30, 26 48 been reached. 30.24 Cloudy & chur by horns, Wind very light.

- Onesday, June 17" 1873.

Time Bar Wir Mater Sp. Frv. Mind dead ahead. A ground swell heaves in, so that it is difficult to make headway against it in calm or light H am 30.05 40° 41° M. S. W. weather by towing, even with the tide, 8 1 30.10 41 and there is no hold for an anchor 42 12 m. 30.01 45 in the entrance. & JM 30. 07 43 41 25.5 8, 3004 41 The latter breaks clear across during M.n.n 121, 30.00 42 40 The heavy winter storms. The best holding ground inside is pretty Try & cloudy, blowing a stiff breeze. Ham. 29.98 Hi Hi mell lover on the western side, n.C. all two thirds of the way from the rocks to the village; 6 fms muddy grant 8 1, 30.00 42 41 The is good water but no drift we 12 m 30.05 H4 H1 or growing bushes of any size. Hogy & cloudy. about noon stand in Chere is a dwelling and store, to wards Chichagoff Harror, aller Island, coming to an anchor in the middle of house occupied by the agent of the metere handes in which live about Me Day about 1.30 G. M. 200 natives. At the present time there is but little The Cartor is a good one but can only be entered with a fair wind and fish to be obtained here, shough is still more difficult to get ont of. The entrance is exceedingly narrow formerly abundant the boollies or squalls from the I that there is no opportunity to tack mountains are very severe un nomber ir wear. In an emergency one my anchor ontside the narrows and the worst weather generally comes from the Southeast my eastward. in a small bight on the S. E. side Northeast weather in summer is a southwest wand draws in, as for as the narrows, when it comes usually more or less clear; also

South est and west are the prevalent Jimi Bar hir Water Dup do Wind summer winds.

6 am. 29,90 40 42 42 30, The harbor never freizes over and 12 m. 29.90 52 The fall of snow is not large. I 6 Pm 29.90 50 46 m.n.6. Very good potatoes have been raised Half clear in the morning. Obtain als. by the Companys agent, but no other ervations for time and agenuth, and Shurday, June 19th 1873 - Salurday, June 21th -Dene Gar. Air Water Dup do Wind 6 AM. 29.99 40° 42° 42° M, June Bar ar Water Sup do Wind 6 a.m., 29,98 43° 44° 42° M.S.N 12 m. 29,99 51 71.6, 12 M. 29.97 47 6 PM 29.90 44 43 6 J.M. 30.02) Hg 45- "L. Cloudy all day with freen Hywind. W. H. Mick and Joggy. Wind light. There is no anchorage in Golly the Knile Junday, Johne 22" Jame Sar, Varil Water Dup do Mind. 6 am. 30.20 44 43° 42° n. L. Lr. so called on the Ex, Exp. wharts , as the water is too bold, and there are many Mere last summer. 12 m. 30,20 53 Day cloudy, wind light, morday, fund 23" The same is asserted by the natives. to be true of the other Bays, which Ome Gar, leir Water Seep de Mind 6 am. 30.29 45 44° 42° balm indent the shore line of the island, except Massacre Day, where there is an anchorage, though in pretty deep Mere are no harbors on faither. ichi Blands of on Bouldyr

Weather Mick, wind fresh. Getting ready for sea. Inke the large boat and visit Sarama Bay to the Gastward of Chies a fit Harbor. Wednerday, June 25th 1/3. Dimes Bar. Alir Water Sup do Mind 6 a.m. 30.07 46° 44 42° Calm 12. M. 30.11 36 M. M. Edr 6 P.M. 30.13 48 46 Cafm and affords no anchorage. There are scattered rocks and responsit of Them visible above the surface of live svater. There is a consideral depth Garly in the day, sky covered with broken of mater in the outer part of the Boy clouds. attempt agimuth abservations. but near its head it sudden, shoots which are interrupted by clouds, and the weather becomes thick. Wins very light and terminates in a broad solnt beach a mile long through which a stream flows on which is a native , fishing let at even. Nessels had better avoid this 12 M. 30.26 56

Rind light, northerly, Weather thick & foggy.
Ohs. for magnetic dip by ordinary and dloyds' Methods am, and P. M. Days. Keturn to the Harbor about 3 P.M. The trole about atter as in the Extern part of the chain, invariably rises to the Westward, and falls to the South and east, causing a strong current Late in P.M. sun comes out well and near the shores; of which rebuils bound for the Harbor with light minds we get four sets of as much abs. The hest yet oftained. I Ariday, fine 27th will do well to take notice! Obtain a few observations for agimuth Jun Bar aler Water Deep do after returning. - Onesday, June 24" 1843: 6 am. 30.22 48 13 m. 30.2x Ime Sar. Aux Ant water Depte Win nnnfr 6 am. 30.04 42° 4 8. M. 30, 23 n, W 12 m, 30.05 50 30, 22 45 6 P.M. 30. 03 46 30.23 KH

Lense fog all day. Wind fresh in P.M. — Saturday, July 3" 1793. —
Creck thro more signals in the afternoon Jime Bar. arr Inf. Water Supto Mind
one on the N.W. and of Little Kyska, Blan (a Mm. 29.95 45° 42° 41° SSb.
Lignal, and one on the S.B. and of the 12 M. 29.99 49

Low Mern shore of Great Kyska, which 6 9.M. 30.00 50 42 S.W. Signal and one on the S. B. end of the ore call South Head signal. Ruin and heavy well frog in a. M. 9. In topy y and thick but less ruin. Send the boat out to obtain some fish Establish a station on the sand bluff near the village for taking astronolitics and magnitive debenophons. I the possible; but they do not succeed in finding of plans day July 3 ray 3.— any. Sunday, July 6 "1873.—

Sunday, July 6" 1873.—

Sunday, July 6" 1873.—

San. air Suf Mater Sup do Mind Bar. air Suf Mater Sup do Mind 12 M 29.12 52

6 G.M. 30.00 48

H1 S.N. 12 M. 30.09 53

Sense for all day, lifting a little nort 6 Cm. 30.06 49

H2 S.S.G. and thent. P.M. measured base lines Lay foggy & met, wind strong. from So and A to no and run In P. Th. cross the don't between the head of the The shore line between the two with harbor and and a small bay on the otherisede the telemeter.

Friday, July H. high the distance across is about two miles Jame Bar. Wir Any. Water Sup do Wind takely The western bay is shoal and full to M. 30.15 44 43° 42° S.S.M. of rocks and rocky islets; the beach of sand 12 m. 30.11. 49 S.E. — Morday July 4. Lines med fog all day, with heavy 6. 1 m. 29.89 44° 42° 42° 6.86° rain late in P. M. and high wind. 12 m. 29.95 48 41. M. Conse med fog t fresh wind with rain.

Continued. 41 Day cloudy, with some fog thight wind. Day commences with light variable winds, partly clear, but soon clouds over. Observations for time, interrupted by donds. Ann shore line + take angles on Little Kyskata.

- Wednesday, July 16 ". Spend day baking angles from various stations. Dime Bar. Air Water Seep do Wind 6 Am. 30.26 44° 41° 42° S.G. 12 M., 30.20 X8 S.S.G. 6 P.M., 30.13 48 42 - Sunday, July 20th, 1843, -June Bar. Ait Water Sup do Wind 6 a.m. 30.48 49° 42° 42° 6 P. 30. 13 48 H2 S. 12 M. 30. 44 54 S.W.

Day rainy with thick for and light wind. 6 P.M. 30. 38 51 H2 W.

P. M. Wind strong. Alorend light wind. 6 P.M. 30. 38 51 H2 W.

Time Gar. air Water Sup do Wind Monday, July 21. June 6 a.m., 29. 96 50 H2° H2° S.W. June Bar. air Water Sup do Wind 12 M. 29. 91 50 H2° H2° S.W. 6 a.m., 30. 56 51° H3° H2° Variable 6 P.M. 29. 77 50 H2 M. S.W. 12 M. 30. 59 64 H2° Variable Juday, Index 18 # 1842. Inie Bar air Water Dup do Wind a little fog on the horizon. 29.61 Hg° H2° H2° S.M. Dital abservations, soundings, astronomical 29.72 57 Variable azim the and circum meridian attitudes with 29.84 53 42 " The vertical circle, take up the day. 12 m, 6 G.M. a. M. Heavy wind squalls Hog. J. M. Partly toggy, In J. M. Capt. Herendeen goes he a peak To ashore and run some shore line and take in the middle of the north part of the island Some observations for magnetic azimuth; interrupted by fig where he obtains some bearings on distant Sant Sahurday July 19th, objects, islands &e as follows: 42° Le Variable Reef (end) stretching bowards Pillar Rock A. 54 W. 6 a,m, 30.03 S. Gillar n. 60°W. 3 (or 62 W.) 12 m. 30.20 Lr. Variable Bouldyr Ad. (middle) n. 78 M. 6 P.M. 30:30

42 Continued. Mednesday, Inly 23" 1873.

Sime Bar. Air Water Sup do Wind

6 a.m. 30,36 52 44 43 S.

12 M. 30,35 56 43 " n. edge from Id. n. 86 8. S., "Little Sitkin Fd. S. 886. n. Rat Id. S. 786. N. C. corner Little Kyska Is 4 P.M. 30.30 53 46 S. edge Rat Id. in one line S. 756. 8 , 30,29 48 43 12 " 30.25 48 42 S.S.G. Small island off Little Kyska) S. 696. Day very Avggy with light winds.
60. S. 556. Stand out of the harbor intending to pass S. edge amehilka Id. Blahd A South Head A S. 41 6. between Little Kyska & From Id. but a hear South End A S. 4 87306. Inde sets us back so that me were alliged attronomical A S. 7 8. 2 to pass to the north of the latter. a held of low land with lakes, cuts across the noon the peak of Chrostoff Id supposed the island about a mile north of this peak, love 6. by S, and that of From Id S.E. by S. and between it and the high north Peak. 28. distant about 3 miles) by compress, Suesday July 22 1843. — The north edge of the latter at the same Dime Bar. dir Water Dup to Wind time bearing 6, S. E. at noon get an 30,50 52° 44° 43° Variable abservation for position, which shows 6 am. 12 m, 30.45 65 S.W. That there islands are placed considerably 6 P.M. 30.38 66 43 Wariable North on the chart. at this time morning somewhat foggy, nearly calm. He north peak of Great Kiste tel. bore I.m. Whid fresh at intervals, foggy. IV. by S. mesmetic. a.m. take observations for magnetic azimush The Gast stope of Front de is long teven and dip. I, M. Tidal observations and sounding the rawines te seemingly even filled with said of a gray color. I he north plope in abrapt trocky. The West stopes down Spend the night backing about in ameritha bassage

Thursday July 24" 1843. — Friday, July 25 h 1843. —

Jime Bar, Air Water Sup do Wind Sine Bar, Air Water Sup do Wind

4 am. 30.20 45 42" — S.S.E. 6 am, 30.00 46" 42 42" S.W.

8 " 30.16 44 43 - " 12 M. 30.00 52

12 M. 30.08 52 43 - " 6 PM. 30.05 49 42

7. 6 P.M. 29.99 49 42 - S.E. Lay foggy telondy, mind light. Day densely Joggy, wind fresh. The boat gues out to sound on the kelp petal The tog lift at times about noon and finding the least water at low tide to he tird Ams. She brings back a good supply me make the coast of amchitka and of fish, the first cool thalibut of good after standing in along share we enter to ality obtained, since leaving Unalashka Constantine Boarbor and anchor in 8 That sandy bottom about I P.M. ____ saturday July 26th _____ S.W. Ins had sandy bottom about I P.M. thick with rain. This is a very good 12 M, 30.24 52 Inbor except in n + n.b. winds, and 6 9.M. 30.29 48 42 S.W. during the prevalent Westerly & Southerly Day foggy & cloudy, wind light.

winds of summer may be advantagently P.M. Bo ashore for time obs. buttour does not come used. The opening is wide enough for out. — Sunday, July 24th, —

any reasel to beat in and there is alm 6 a.M. 30, 32 48 43° 43° S.M.

I dance of water a kelp patch with 5 fms 12 M. 30, 39 62

water on it is in the middle of the order 6 P.M. 30, 45 62 44 part of the entrance. The shores are a Froggy realm. At noon the sun comes principally low bluffs with bold nature out now then. Try for circum meridian but the head of the bay has a sandy altitude, with sextant and get a few tolerable beach and close in is shoal. on s, then attempt observations for Two sites of old villages exist here; there is plenty to in with poor success. drift wood on the beach tabundance of fresh water We caught abundance of cod thalibut near the entonna Athley.

Continued. 47 Monday, July 28" 1893. ___ no better than that afforded by a number Bart Ahr Mater Deep do. 30.50 50° 43° 43° Wind of other bight between this and Constantine Vine S. Harbor, I The anchorage is excudingly 6 am contracted, and only sufficient for the 30,51 54 12 m. 30.43 52 xx S.S.W. smallest reasels. The water is very shoal. 6 9m. Morning Joggy trainy, wind fresh. Evening rainy not appearing to exceed the fathoms. 6 am. 30.41 49° 43° 43° S marked on the chart as the anchorage.

12 m. 30.40 38

S. W. we found a ridge of rocks with about

6 P.M. 30.39 36 42

S.W. there feet of water on it. The tide was Take the large book & run ont of the harbor, the incomprehensible, how, with as beating up the n. goast of the island to examine good a Harbor as that of Constantine, Kirloff Harbor. So not find anything so near any resul should attempt corresponding to the buy on the chart to enter this rocky cove, which is and go ashore at a low point, which is under no circumstances to be recom-The most priminent one above Constantine Bay mended, It is about 32/ miles from and take the Hollowing bearings (magnetic)! The M. head of Constantine Harbor, Bask bape of amchilled 6.5 S. The remains of the deserted village W. Mead bonstantine Bay S. 65 B. are very evident. Small Id, in bight W of do S. 48 B. Return to the resul, the rest of the W. Head Kiriloff Harbor S. 3TE. harry having obtained solar Amagnetice Small Id. off Wiend amchikka n. 5y W. agimuth durking the P.M. Sor point n. W. " " N. 62 W. Wednesday, Inly 30 h. after taking tea return along shore and Jime Bar. Ait Water Sup do Wind of the Color tielled of the state of the solar trains of the color of the state of the solar trains of the so see the Cross trillage of Keriloff & goin 6 am, 30,32 30.26 58 to examine the locality. There is hardly 12 M. my bry, the Shelter is very poor, 30.2x 5x

48 Continued - Sunday, Aug. 3" 1873. the fog occasionally, and in the P. M. Dime Bar Oliv Water Sup do Wind 6 am, 30.08 49 42° 43° S. 12 m. 30.10 52 S.B. attempt observations for time with the vertical circle, and get one attitude. 6 P.M. 30.11 51 H2 Wind fresh. Evening rainy, Wind more moderate. Larry & stormy.

Inonday, Aug. 4"

6 am. 30.26 50 42" 42" 6alm a shock of earthquake followed by another lighter one was felt this evening at 10 5/2 The interval was about three seconds. 12 m, 30,24 53 S, 6, 6 P, m, 30,24 52 42 \$. Foggy, Clains Abloms all day. 6 am. 3024 50° 142 42° 6. 6 Am. 30.10 52 43 12 m, 30.25 56 6 Pm. 30.26 54 42 Rainy mith strong wind & dense fog.

Griday lang, 1st 45°

6 am 29.95 50° 45° 44° S. Joggy rainy and stormy. J.M. Weather 12. m., 29, 92 52 6 Pm, 29. 84 50 43 settles a little, but wind remains the same. Mednesday, ang, 6th 6 a.m. 30.34 st2° 43° 8.

12 m. 30.32 59 " Karny & stormy all day, Cross the Island and find a tight full of rocks on the opposite side, Saturday, Aug. 2: 4 P.m., 30.33 55 44
6 a.m., 29.79 50 43 44 S. 8, 30.32 50 43 S.S.E. 12 11 30,30 48 45 12 m, 29.84 49 6 Pm 29.90 50 H2 Morning half clear nith fresh wind, and streaks Rains and storms all day. for latitude, time + azimuth. These completes, stand out of the harbor about IPM, when it shorts down thick, with very light winds . -

54 Continued. and stand out into the straits. Det als Is The 54 04 50 Ams 39 dec. cross bearings on the no Ceak of adakh, 54 48 41 " making it approximately 5-678 ft high 55 35-244 " which must be nearly correct. 56 22 4 - Thursday, augt. 14" 1843. 51 " 57 13 50 Jime Sar ait Water Wind it og 50 " 4 am. 30.19 50° 48° 21.6.8.6. ig oy 50 " 8 30.22 50 50 1 9h.
12 m. 30.23 54 51 "
14 G.m. 30.20 50 50 54 . 50 " 50 , 50 " 30, 19 49 50 LN Variable 1 03 08 50 " 64" 30, 18 49 50 " 14 53 50 " 12 mins 53 sec. Triday, and 15th. Bottom about, 700 fins. Lead came up clean. 12 ,, Day foggy or cloudy. Wind moderate or light. Bottom about 700 fms. Lead came up clean.

4 a.M. 30.18 48 50 It Variable Kasatochi Id. bore S. by W. Koninghi Id. bore 30.20 48 50 balm 6. by D. 5 D. magnetic. Later calm. 12 M. 30. 20 ug 50 — Saturday, Aug. 16" 1873.—

4 P.M. 30. 20 ug 50 — Saturday, Aug. 16" 1873.—

12 M. 30. 20 ug 50 — Ham. 30.20 H8 H6 balm

12 Jay clondy, warly saked.

12 M. 30. 20 ug 46 ...

12 M. 30. 18 ug 45 ...

12 M. 30. 13 30 us 48 ...

13 Jake a deep structure. 30.13 48 Dine Run out Demi occupied in 12 , 30.12 etg 48 dt. D.
Th. 52' 0" Let go running out 50 fms. Good calm with fog all day, until late, 25 sec. In grening, with a heavy smell from the 52 25 50 fms 30 " n. E. Some furl sails to obviate the statting

Continued. __ 57 Sunday, Aug! 17" 1873.

Ham. Barl air Water Wind

Ham, 30.10 48 50 St S.

8 " 30.10 46 48 S. not so good. The shores are mostly rocky and the shelter is formed by many small estets. The ground was covered with a rank growth of grass therhage. no regetables are cultivated here, though appear ances would indicate that they would Hind light and unfavorable, Spend the do well, if properly attended to. stere day beating into alla Hartor. north of the harbor is a broad sand beach May an Bay. I There is a settlement In the village there are six houses of and trading post of the Waska born . Go samed lumber and a number of huts. at this place, and the agent came out to · The tides rise and fall from four ho met and an a skin captaer. There is also a Dix feet, There is no establishment. soull settlement in the strait between todfish and herring and a large kind amlia and atka on the amlia shore, and of Ialmon and sebreral ports of shellpish another at the old Kussian Station on a shand and on the west side of the Island. Korernsky Jay on the West side of the island Many whales were seen in the bay. There are in all about 334 natives in these Coul is paid to exist on the South side villages. Those which we saw were less o of the island and on Korovinsky Bay, " motortally clashed and less neat in their there there are also hat springs near I wond, then those at any of the other stations the Kluckeffskaia Valcano, where a the have visited. The harbor is small prost for invalids was established by with sholter from all winds, only a little the Russians.
The aving in during Northbaskers. Sulphur, alum and several kinds heavy squalls come down with Southwest the vicinity of the volcanoes. sticky med, good halling ground. I turker in it is however said to be

-Monday, aug. 18" 18" - Saturday, aug. 23" 1843. Jime Bar. air Water Lupas Wind Dune Bar. air Water Sup do Mino 6 am. 30.01 51 49" 45" 8.6.

12 M. 30.01, 60 " 12 M. 30.08 62 S.S.E. 6 Pm 30.06 53 44 " 6 Pm 30.04 58 46 S. Claimy and foggy. Wind fresh it squels. Hoggy trainy Wind light in a.M.

Gran Joseph 19th 19th - Sunday, angl. 24th - Sunday, angl. 24th - Sunday, angl. 24th - 12 M. 29.97 56

G. PM. 29.94 52 H5- 2. 12 M, 30.23, 64

M. M. 29.94 52 H5- 2. 12 M, 30.23, 64 Tring & stormy all day. 20th . Morning cloudy afternants faitly clear, Wind 6 am. 29.90 stg. 149° 244° M.G. moderate. during foggy. Observations for 12 M. 29.94 56 6. and it reptito by clouds, astronomical Gaing & stormy all day. Work over sketches and slight elevation. Hag signal observed clerical work.

Thursday, ang. 21 st. passage at the South head of the harbot. 6 am. 30,22 50 46° 44° S.E. He signal was placed on the middle of 12 m. 30.26 56 " He top of this islet, which is very small 30.21 52 45 " and high shaped like a jocky cap, or old Joggy trainy with occasional squalls, & fashioned fountain inkatand, and easily The glimpoes of clear sky tonard evening recognized. J.M. Mearly clear. The for aginally thriday, and, 25th ______ a.m. 30.22 50° 1 46° 44° 8.6, 6 am. 30.47° 52° 44° 44° balm 12 M. 30.14 62 S. 12 M. 30.50 60 M. 6 P.M. 30.50 54 Hy "
Voggy trainy with squalls, whe are particularly hear in the evening Day forgy and met with light winds.

60 Continued - 61 Take a bid or ka and cross the portage to one, and the inner face of the Western examine the old anchorage at Kotogensky one. Between the troublere is a sand law Bay On our way over visit the hot springs with three fathoms on it at high water on the place of Klucheffskaia Valcano. and about two at ordinary low water. These springs, contain sulphur, limet the inner bay, has become bery shoul alum. They have a temperature of this so that it is now inexpedient for vessels and the water deposits a variety of red, blue to enter, whereas formerly the Company's and white clays about the diffices of the brigs were able to make a good harbor geysers. The Hody of mater istuing is not to the n. + W. of the integree. There gre Jalge and yeems to be diministling. abundance of shellfish here cod in their The Chuseians formerly had a bath Honse season, and habit, but little driftwood, I retreat for invalids here, but the great The inhabitants number about 100 souls estance from the phore (about 5 miles) there are pere al good houses and achurch and the very fatiguing climb up to reach rapidly falling into decay, the plateau on which the springs are petusted This settlement from the abundance under them difficult of access for persons of food, is much better surted to the in a weak condition. They are peached regilirements of the aleuts, than that on from the head of a long bay making up Wag in Bay, but the parbor is no longer from the of harbor, where a largelything avdilable, though Klinkofstrom Harbor Mr am enters in which, is a great ahund. The other side of Korovinsky Bay is some of salmon. This bay is very shoal, said to be well protected. its bottom and shores stony and the depth. Juresday, Augt. 26 1. 1873.—
It water parely excuding one fathom! Jime Bar Air Water depas Mins
beaching the settlement towards wening 6 am 30.50 32 47 44 S.M.

I found that the spits which enclosed 12 M, 30.44 62 W.S.M.

The bay formerly entered by ressels 6 G.M. 30.44 60 48 W.

The bay formerly entered by ressels 6 G.M. 30.44 60 48 W.

The wand on the outer face of the bats Joggy in J.M. Observations for latetule un

62 Continued. - B3 Eleaner mith fresh Westerly winds in P. M. - successful on account of clouds. Cross Korovinsky Bay in the skin canse to Klinskofstrom Harbor, a small bay making about noon migh anchor and stand in from the extremity of the larger one. out of Mayan Bdy to the Bashward, finding Here complete perspection is had from a very helavy, n. W. ground smill off shirl, all winds in 11 Ams hard pand. I Shurdday, ang. 28 193. 11 Time Bar. air Water Hope Wind Ham 29.75 50° 45° W.S.W. This anchorage was first used by lapt martin Klinkofstrom, then of the Anssan // american Companys Marine Service, and 8 11 29.84 since by others. The above name was 12 m 30.04 applied to it by the Russians. 4 8.m 30.10 n.w. looal was reported in the bluff forming S.S.M. the M. E. head of this harbor but of 43 12 " 30.20 58 examination only drift ragments Day partly clear with fresh winds & heavy of lignite and schoolied word, of no grønndsnell. Fog squalls passing over Alle for seconomical purposes were from the N.W. in rapid succession. I and it is quite certain that make the most northern of the group of the well detired bed even of this Islands, known as the "Four levaters". unaterial, in this locality. It is a very sharp and iregular island Ufter examining this locality return for or five miles long, front n. to S. my 11 hazan Bry Hget ready Aut sea. about thalf as inde, wishout lays or Wednesd of aug 1. 27th/ 843_anchorages. It is separated from Wind the island next S. b. A it by a 8. W. strait not over three shiles wide t 6 am 30.11 S. S. W. high above water n. 3r. from the latter.
" island about half a mile." 12 M. 30.01 H 1, M. 19.96 46 W. There is a rocky peller of the n. m. 45

Continued 65 6x Continued. than any of the others, and the north coast end of the first island, but no may have been toucher miles in length conflying pelfs were observed. terminating to the Westward in a long The second island is mountainers low nerrow point. Setween this all but not so regged as the first. the M. t. and is another low point, Mestends in naly a n. +S. behind which is probably situated the direction and may be eight miles anchorage spoken of by the natives. long & fine will, or less. The peaks well foggy but apparently from two. Charf swell and strong H. W. wind to these thousand feet high tralcame blowing straight in honder, fortake around the north point of this island our entering to examine this decality. The dast shore is rocky with a prominent . The short of these as lands appeared to be point making out, South of which is Arimed of valcanie breceia & notamore a fight with four land to stream phic slates verlaid by layers of voleme behild sty and a shingle beach on ask & but. which a landing might be made boasted fround the north Heast shows in fair weather 1. There was a good of the group, but finding no safe anchorage for landing place, we shere peluctantly deal of dreftwood on this beach. obliged to give up the idea of obtaining The Southeast end of this island is a moderately high broken rocky an armuth of this place, as the laterally point with precipitions sides. of the peadons and character of the weether A farger what supposed to becknyil gove as little to hope fot, ever if me The Charts is separated from the slave of and on for a week or how one just spoken of by a strait. The islands present ne resemblance running in an St. + W. direction, whatever he she representation of them The islands present ne resemblance on Tetenkoffs and the U.S. Hydrographic Charles and the differences are irreconsiled five miles or more in width, at the Western end of which appears hobe another juliand. The third mentioned The older charts of Sarycheld and the to the South of the strait is larger Lussian Haydrographie Office ar

66 Continued. - Continued. - 69 perhaps a very little better, but stall Later in the day the north edge of Unlex cudingly incorrect and it would appear - alashka having M. & by E. & I magnitic to be the only method of obtaining an and the north share of makuskin Bay appropriate chart, to take an opportunity & sounded with 200 Amsi finding no of landing a party on them in the fail ; button and being directly on the line we alle let the spring, and leave them of the supposed freef, replaced the led The during the summer moles charbor with a heavier one and sounded again should be discovered somewher which in nearly the same locality, with two mould afford good protection and find in a gain attaining no battom. This does not from our observations The fallowing hearings & Altitule devere Spiday Aug. 27th 75. Auken at the same time: A, Ship Rock n. by Ny N. alts Bogoslor B. W. edge Bogoslov N. by W & W. 1° 43' " 6, 6. 1, n. n. by M. 1 4x 0 4 Am. 30.21 41 44 W. F-6 measures 4 58 10" / 45 0 8 11 3029 48 46 11 Reef & of island bears n. Inderlor. 3' 18" 12 m, 30.30 48 48 4. J.M. 30.39 52 49 Ship Rock on with edge of Bogaslor, bear h. n. W. W. M. 8 " 30.40 HL 46 n, 12 , 30.42 45 45 Day half clear with light airs from the In the latter case the attitudes were as follows: Northward, and The still ontimed heavy 1 15 30 on art - Index Cor. Off are ground smell Arom the Mitt. F.M. hearly calm, 1 20 0 35 30 28 50 a little later Bogish - hearing M. n. N. Some up with the Volcanic island of Bogaslov, or "It John the Theologies". At non being in Lat. 53° usy '50"n. (The axis of the island of the neet, If it existed)
the island love n. by. E. by compass sound again with 250 fathoms to bottom,
about hen miles distant. a good straight sound. North coast of found again with 200 fathorns I no bottom, a good straight sound. north coast of

67 Continued. - 6 timed. - 19 Unalashka hearing N. E. by 6. - 6. and principal groups of which the middle is attitudes 1° 16' 0" by 1° 16' 20'. The most elevated and the northern the throm these data me gather the position of most acute. There appeared to be little the island to be approximately 53° 58 n. for no beach or landing place except Lat. 3 164 33 30" W. Long. Ar. and behave the balus of broke mear the Die. an altitude of letreen 1859 + Tog teet. end, and most of the share was prejutions. The rest may be considered as explicted. Ship Rock is a perpendicular Isquine a man stationed at the mastread with! topped pellar about half the length of the island, north & West of the Moth clear weather and a very heavy swell running, could distriguish no breakers end of the island. There is a small except those immediately around theisland hock half a mile M. + 6. of the island The restel being run as nearly as possible which rises but a few feet above the some the line of the proposed reef for mater and or all sides (except the West) and separally to the 6. & Co. of the island The remarkable island presentes the hostil here there were observed, apparance of perfectly bare and extending less than three quarters of a mile extremely rugged & precipitons rock from the shore. The rocks of Bogosloo of a pinking clay color, and without appears to have a general cleavage plane an indication of stratification. of 60 a M.S. W. direction. The axes extends in a Min, W. magni, there is no crater, nor appearance of a cone, a direction and is essentially a sharp hide there is no water on it, and it is inhabited about half as high as long bristling by a rast number of birds to a few scaling, with pinnacles and ragged projections the heavy smell breaking many feet and scored with marrow gull is noon high on the precipitons shores forbid by the weather. It appears at that it the idea of a landing, and the weather sworld not be possible to reach the summit gare is no hope of getting satisfactory Of even to ascend it for any distance. I Other prinacles are disposed in three obserations of or all the island some relactantly headed the ressel for Unalashly

11 - Continued - 11 · Ope relands in evidently smaller theres breakers were insible. The noch may Man the plan given of it by Sary cheff and have sunk, or ben troken away sinke his soundings appear quite unreliable. The time it was originally reported. The position differs on all the maps. Yesterday I'M. We lattained a hearing date has XXXI in XXX give alightly different which if we had not been materially positions and one indicate, the supposed set out of our course by the current The Russian admiralty Charts as usual Dristpully lower but neverthely appear more accurated in regard to the is one of the highest in the whole projection. Then the later oned of Debenkoff group of islands and from its The island is more to the North + best appearance of should say it was Then any of the charts place it, according only second to Shishalden. hour rather limited observations, - Satzerday, aug 1. 30 11/3. Den Bar. Air Mater Wrind 4 AM, 30.50 44 45 W. 8 30.32 46 49 12 M. 30.55 50 50 " which last were interfered will by The surge tenrest. Denoy note her that often in alka The foreman of the native hunting parties, came in from the dast lend 4 8m 30,50 55 of and where he had been hunting 30.42 49 8 Dea-hers, and on enquiring in regard 12 1 30.32 ho the high rock said to exist to the 2 Day half clear, wind very light. North for this part of the island, but the same annoying heavy smell continuing disputed by Krusenstern, he spoted P.M. when two mines the the of Capital that there was a parch in the locality Unalashka, sound in to fine fine indicated with fire to ten fathousen black gravel. The shallow plation at when in very heavy nothing storms of Bring Dea first bonches with its

12 Continued. Western border the alentin chain - Monday, Sept 1. 1873 - in this orcinity and continues hence Inne Bar ali Water Sup to Wind Sastrard to the Mundand, and am 29.65 50 Hb 45 W.S.W. W.S. W In 9.30. the horizon being unusually 12 M. 29.90 36 Wh. W. Clear we see all the peaks of Unimak 6 8, M. 30.02 50 44 S. including Shishaldin, which last is Day cloudy + squally. W.n.w 106 mills away. Attaining the mean P. Th. Conds of a little sur! to large series of altitudes, and attempt als for time with sellant, which wind the distance more accurately are interrupted by high wind telonds.

If the distance of astronomical — Duesday, Sept. 200.

Therefore we obtain a height for it am. 30.12 by 45° 45° V. from the elevation given by Jelinkoff 6 Mm. 39.95 50 46 Speak the Sehr "Hentchindor "bonno" Day calmert cloudy. a little sun in early for the Western islands.

A.M. but abs. for theme with Vert. arche after dark a strong & & breeze are frustrated by clouds. with agrials springs up and we lay off - Wednesday, Sept 3rd and on near the month of Uralethka 6 a.m. 29.30 52 46 45 Valm Hearbor, waiting for daylight to but in 12 m. 29.23 57 W.S.N. Sunday, aug. 31 1793 6 P.M. 29.13 48 45 3r. San. dir water Wind Morning clondy with heavy rain. P.M. Squally. 4 M. 30.15 50 41° S.S.N. Evening strong blow from W. ward with Pain I and squalls: Thursday, Sept 4. 6 am. 29.58 43 Lay orany, squally 4 stormy. 12 m. 29. 40 M.n.M. Beat into the small thanker about 5 am. 6 P.M. 29. 84 and anchor in 10 fathoms meddy bottom. Gains and shorms all days

Triday, Deptt. 5th 1873. ___ Continued. Jime Bar! air Nater Seep do Wind How clouds over with highly 6. wind.

6 am 29.95 45 44 44 N. B.M. Angles from Keystone A.

12 M 29.89 54 6. June Bar. air Water Seep do Mind Cloudy, winds light. Later, fresh. 6 am. 29.45 47 46 44 Let Beffling Greet a new signal "Swinoi" on Hog Zalan 12 M. 29.45 52 N.N. Captain's Bay; but the wind becomes very 6 P.M. 29.48 41 41 tresh and we are obliged to leave in a hurry Slow steady rain all day. Wind on derate the riginal is on the edge of the bluff, nedi- Wednesday, Sept 10th - When north end of the island, and is one of 6 am. 29. 58 48° 46° 44° MS, W. The tripodal kind like Eigler A. 12 M. 29. 60 50

The tripodal kind like Eigler A. 12 M. 29. 60 50

K. Saturday, Sept 6 to 1873. — 6 8 M. 29. 58 H9 47 S.N.

6 am. 29. 40 Hj H6 HH S.B. Clondy, wind moderate. Angles all day

12 M. 29. 32 50

Mind light, ; rarry all day. 6 am. 29. 58 H6 H6 HH HH MSN.

— Junday, Sept. 7 to 12 M. 29. 62 51 Sto Viguelle

6 am. 29. 43 54 "Morning clondy, wind very light to fine dooks

6 m. 29. 50 51 HT S.N. 6 PM. 29. 63 50 47 Storedooks

6 m. 29. 50 51 HT S.N. 6 PM. 29. 63 and spend the day

Morning partly clear. Jake obs. for time with taking there, to king angles and punning sheet line.

Monday Sept. 18 to 12 M. Mary, Sept. 12 to 12 M. 29. 80 50 My Sept. 12 M. Morning sheet line. Monday Septr. 8th — Friday, Sept. 12th Galm 6 am 29.82 50 44 44 Calm 12 M. 29.82 50 44 44 Calm 12 M. 29.86 58 M. M., M., M., 29.66 58 M., M., M., 29.66 52 47 Le. Variable 6 PM. 29.95 52 48 M., M., Morning perfectly clear tealm. Obs. for hime with belondy with light wind in a. M. and Verheal Chele & agricult with Theod. no. 9%. Areah in P.M. Some fog in P.M.

Angles from Eider A. Ascend the Lyognok Time Bar. Vair Water Dept Time Wolkans (extinet) with Sailing-master Whenden to Am. 29.90 46 46 46 442° J.W. but the fig interferes and Arristrates on 12 Mr. 99.98 55 proposed observations for the altitude + 6 Gm. 30. 10 50 49 Calm. position of the crater. The cone is princip Morning fresh I wind and broken clouds. -ally of red and black scoride and is quite Obserbations for azimuth. Later cloudy steep The crater is about two hund latet with rain squalls. Evening clears off calm deep with a small lake at the bottom. and we take obs, for agrimmth on the poll-star. Saturday, Septt. 13" 1873. — Wednesday, Sept. 17" —

Time Bar, air Water Supdo Wind & Mm. 30.29 43" 45" 44" &

Am. 30.12 49" 47" 44 Le Variete 12 M. 30.23 53

12 M. 30.14 59

6 PM. 50.22 30 44

6 PM. 30.10 49

6 PM. 30.10 49

6 PM. 30.10 49

7 PM. Sasterly winds. Angles Morning half clear; calm. Obs. for agrinul between the signal used for agricult in am. & P.M. angles from stations on Hog Id. with Polaris, and the church Enpola, Sunday, Sept, 14th and magnetic azimuth of the latter. 6 Am. 29.86 53° 49° 44° S.W. P.M. Whird fresher Go No Hog Id. in the 12 M. 29.88 56 age boat and finish up the angles from 6 P.M. 29.92 54 48 S.E. Sminar A and the phase line of the pland. Thursday, Dept. 18".

- Monday, Sept. 15".

- Monday, Sept. 15".

- Monday, Sept. 15".

- M. 29.89 49° 41° 44° belm 12 M. 30.19 54 M.

12 M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 45° later very strong with 18 M. Solman 29.80 48 49 M. Solman 29.80 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 48 49 M. Solman 30.20 49 49 Litherable 6 P.M. 29.80 50 M. Solman 30.20 49 49 M. Solman 30.20 49 M. Solm Wind light. A wet fog continues all day. Ohs. At agnetic aginfuth. 5 P.M.,
Bark byane", 32 days from San Francisco arrives
with our first and only mail this season.

12, M. 30.30 51 B. -6 9.M. 30.26 54 48 " Cloudy, wind light &variable. am. 29.53 & PM.

Cloudy with strong head wind that pear I ght adverse winds all day! Cloudy strong to the Nothernal by avoid it. with occasional rain opennew moles with the post to the notification of th With bad sed. Refed or laying for — "Thursday, Oct. 2" ...

rearly all day. HM. 29.18 +6 +5 M.S.W.

Monday Sept. 29 h. Thursday, Oct. 2" ...

Monday Sept. 29 h. Thursday, Oct. 2" ...

M. 29.25 +6 +5 M.

N. 28.58 +1 +1 **

12 M. 28.58 +4 +5 **

13 M. 29.21 +8 +8 **

14 PM. 29.08 +4 +5 **

15 Mind light, cloudy. About noon managery.

11 29.08 +4 +5 **

12 Mind light, cloudy. About noon managery. 12 " Ig. 08 48 Hy " to work Maringh the akentan Jass and blondy with squalls, high sea running sand to the Southward. Weather better but barometer very love. Laying to all day.

[2 __continued. -Day with fresh wind, bad sea and more — Monday, Oct. 6" 1873. —

or lep rain. Under reefs.

Saturday, Oct. 4" 1873. — 6 a.M. 29.08 44 49 48 M.N.N.

Jime Barl air Water Wind 12 M. 29.14 48

4 am. 28.78 47 49° N.N. 6 P.M. 29.16 45 48 n.N. H AM, 28. 48 HJ Hg° 8 " 28. 69 48 Hg 49 " Day helf clear with strong breezes from W. 12 M. 28.68 48 " Other timo for azimuth magnetic taction 49 4 P.M. 28.69 48 49 M.N. M. with theirt. Migy of latitude with verherl onche 8 " 28.69 48 48 " at Da Aparet Station, Object observed upon 12 " 28. 12 44 . It I for againsth is bell station of our trunger-Dlowing hard all day with rain ysqualls, lation of last year. The signals on Konge Making plan head way under double peeps. Island & Sand point have been removed by I Sunday, Octr. 5th pome one, probably stolen for the durable 4 am. 28.78 49° 48° W.N. M. contained in them. But the pasition of 1 25.86 49 49 " The signal at Sandpoint over readily from 12 M. 28.92 49 48 " by means of a stake driven last year to & J.M. 28.95 45 49 " Int rite the executive station, and Will Wind very strong. Day cloudy with rain station being difficult of access had Aquallo. We raise the Shumagins early not been disturbed. From a heavy state in the morning, and getting under the hole could when me are done observing les of the land, ale enabled to work I much center of station. up Topol Atraits, and about half past ____ westing! Oct of the 1813. -Andre anchor in 8 fathoms in our 6 A.M. 29.13/ 38° 44° 48 Id location in Boumbold Haybor. 12 M. 29.21 53 W. Catch a good many cod fish & P.M. 39.28 49 41 W.N.M. after anchoring. Menly clear with moderate wind in early Am Later Mearly clear with moderate wind in early am Later With What Mog Time + latitude with sepant + artificial

Wednesday, Oct 8 1873. — Sunday, Oct 12 "1873. —

Sime Bar. Vair Waker Sup do Wind Sime Barl. air Water Sup do Mind

6 a.m. 29.52 3 f H f H f WSW. 6 a.m. 29.70 4 f H y 49° S.C.

12 m. 29.54 HH

6 P.M. 29.44 HI

Strong agually Westerly wind with rain at Strong all day with severe aguallo, rain

intervals all day. P. M. Stromy. intervals all day. P. M. Strong. and very strong raisble wind.

Shursday, Oct. 9 h.

4 a.m. 29.36 38 48 47: S.M. 6 a.m. 29.38 42 48 49 S.M.

12 M. 29.54 40 M. 12 M. 29.47 48 M.S.M.

6 P.M. 29.66 39 48 N.M. 6 P.M. 29.59 49 48 M. Strong with heavy anon squalls all day. Clondy, Wind moderate with grain.

Griday, Oct. 10":

Gam. 29.70 33 46 47 M.N.M. Gam. 29.74 42 48 49 8.W.

12 M. 29.99 48

GM. 29.92 43 48 M.W. GPM. 29.73 40 47 W.S.M.

Lay half clear. Wind rather fresh. Cho.for action Snow, rain 4strong mind. Get a letter I magnetic agimuth with Third Majy sockerhal from I Sherpe I at Island Markor intelfered with by strong wind asking for assistance for thimself gpt.

6 A.M. 29 79 40 41° 44° Man I'm Index on the drag shore Sent back

12 M 29 90 58

6 I.M. 29 99 42

14 S. lotter offering then transportation

Morning clear with very strong wind. So balifornila. P.M. wind shifts to the Southward _ Mednesday, Och 16 ith vain and squalls. 6 am, 29.85 38 12 m. 29.64 44 6 P.M. 29.23 42

Continued ___ Sail for San Francisco at 7, a.m. Painty with half a gale blowing from the S. Vy E. in P. M. Capt. Holder arrives Sunday, Jett. 19th 1843.

Inne Bar. Air Water Wind

H Am 30.40 44 47 47 1.7.

12 3h, 30.41 44 46 " I from the week in a bidarka and vertical circle at Sand point 1? " 30.03 48 48 J.S.W. 9 P.M. Capt Holder, D. Shirpster & four Hoy a gale from S.C. with rain theory sea. men arrive from much of Sch" Mandrelin I meday Oct. 21" 1773.

for pastage down.

Saturday, Oct. 18th.

30.26 48 48 6 am, 29,94 1115 W.M. 12 M. 30, 38 57 12 M, 30.10 46 46, 14 f.M. 30,42 4 P.M. 30, 20 46 46 30. 52 50 8 ,, 30, 29 46 46 121 11 30. 55 50 50 12 11 30. 34 4X 4Y 12 " 30. 34 44 44 bloody, wind, wind, heavy S.W. Smell.

om I wards Wither much the same, but wind Holday, Oct 2xt. So S, Sighter 4 more variable. 1873.

H Am 30.31 52 50 S, Monday, Oct. 27 1873.

12 m 30.31 52 51 " H Am. 30.69 51" 53" Calm

12 m 30.31 52 51 " " " 30.58 50 5x " 4 P.M 30.40 53 52 " 12 M. 30.61 64 56 8 " 30.45 54 52 " 4 PM. 30.56 52 54 M.B.

12 " 30.46 53 51 " 30.52 49 55 "

Weather unchanged, with berry S.W. smell 12 " 30.51 51 56 " dead calm nearly all day. Latering P.M. a little northerly air. These light Southerly + Easterly winds are interest total at

90 Continued. _____ Continued. _____ this time of the year. About nown in Lat. Run out Simple 50 fins per 100 fm, Ratification List.

Hy 24 01 M. + Long, 132 H 0" M. 50 10 33 17 m see m see see.

essay, a sounding with a line composed of 1164 35 0 35 0 03 22 01 this time of the year. about noin in Lat. Hg 24 01 M. + Long, 132 H 0 M. 50 36 48 1264 38 30 38 30 03 30 07 find hemp twome and a meight of forty pounds. Iway to an imperfection in 136x H2 10 H2 10 03 40 10 the line, it parted when 36 fathons had run out, Replace the heavier reight with a sex pound lead & sound 1464 45 55 03 45 05 156x 49 54 49 54 63 59 1H Run ont Jime 50 fms, Jame per 100 fms Rate per 100 fing . Siff. Let go 10 05 0 05 0 -164 fms 15 33 05 38 m see 164 m 06 58 01 25-see. 50 1664 54 10 54 10 04 16 19 214 08 45 01 47 22 No bottom reached. On hanling in, 330 36x 11 0x 11 04 02 19 32 fathoms being a little larger! Than the y 6 x 13 56 13 35 02 31 12 rest came in safely the rest parted 14. 55 near the end of the fine line. 16 13 11 13 02 38 07 564 This line was not originally intended to 19 0 19 0 02 47 09 be hanled in, but it seems endent that 664 The second size would serve in most cases to sound with and probably to 20 32 764 recover the lead. It was ordinary 22 0 22 0 13 0 13 Thome such as is sold by stationers 864 for tying up parcels. 25 0 25 0 03 0 964 1064

4 Pm. 30-36 52 56 4 Pm. 30.50 55 60 " T , 30.39 52 55 INVariable 8 , 30.44 54 59 12 " 30.38 52 36 Calm 12 " 30.42 54 39 " " 30.38 52 36 Calm 12 " 30.42 54 39 " " 30.38 53 53 57 Calm 4 12.18. 30.39 54 58 M.

H Am. 30.38 53 59 Calm 4 12.18. 30.39 54 58 M.

8 " 30.39 52 57 N.N. 8 " 30.31 55 59 " 12 M. 30.26 53 53 .

12 M. 30.42 54 57 " 12 M. 30.26 53 53 .

14 PM. 30.42 55 57 " 4 PM. 30.19 52 52 "

8 " 30.45 54 58 " 8 " 30.19 52 52 " 12 " 30. 49 54 58 N.N.W. 12 " 30,21 51 55 Weather cloudy. Wind very light. Day partly clear. Hind fresh & Strong. 4 am. 30.48 152° 58° n.n.n. - Juny, 100° 2" 8 , 30.49 52 58 " 4 a.m. 30.25 \ 50 52 J.v.6. 12 m. 30. 49 54. 59 " 30.30 H6 4 9.M., 30, 50 56 59 1 12 m. 30.35 50 4 P.M. 30.33 49 8 , 30.51 54 58 12, 30. 56 54 59 11. 1 30.34 49 Day cloudy; wind light 12 " 30.34 48 Chondy and calm , or with his head winds . -

nday, Nov. 3" 1873, ____ Thursday, Nov. 6" 1873 Air Water Wind Jime Bar. Vair Water (Sar. V 30.32 48° 50° 8. N.C. 4 a.m. 30.19 59° 55 30.30 48 50 6. 8 , 30.22 56 54 12 M. 30.28 51 53 12 m. 30.20 58 55 M.M. HBM. 30.21 54 53 , Beat into San Francisco Bay and 8 , 30,24 52 55 M, W, anchor of mission Rock at 199.m. 12 " 30.24 52 52 completing our seasons field work. Day foggy with a little sunshine and light southerly vinds. Muesday, not 4" 4 1.m. 30.2/1 53° 53° M.C. 30.21 53 53 Variable 12 M. 30.19 52 55 14 . M. 30. 15 60 5x . 8 11 30.16 38 54 " 30,17 54 Your sun, with - Wednesday, Moor 4 a, m. 30.121. 53° 53 8 30.14 54 53 12 m. 30.14 58 J.m. 30.15 30.16

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